For Research Use Only

PDHB Polyclonal antibody

Catalog Number: 14744-1-AP

Featured Product

26 Publications



Basic Information

Catalog Number: GenBank Accession Number:

 14744-1-AP
 BC000439

 Size:
 GeneID (NCBI):

150ul, Concentration: 400 ug/ml by 5162

Nanodrop; UNIPROT ID:

Source: P11177
Rabbit Full Name:

Isotype: pyruvate dehydrogenase (lipoamide)

IgG beta

Immunogen Catalog Number: Calculated MW: AG6442 39 kDa

Observed MW: 34 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications: WB, IHC, IF, IP

Species Specificity: human, mouse, rat

Cited Species:

human, mouse, rat, bat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Positive Controls:**

WB: K-562 cells, human heart tissue, mouse skeletal

Purification Method:

WB 1:1000-1:6000

protein lysate

IHC 1:200-1:800

IF/ICC 1:200-1:800

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

muscle tissue, rat skeletal muscle tissue

IP: mouse heart tissue,

IHC: mouse skeletal muscle tissue,

IF/ICC : HeLa cells,

Background Information

PDHB(Pyruvate dehydrogenase E1 component subunit beta, mitochondrial) is also named as PHE1B. The enzyme, which is found in mitochondria, is one of the component enzymes of the pyruvate dehydrogenase multienzyme complex (PDH). It catalyzes the first reaction of an oxidative decarboxylation sequence converting pyruvate to acetyl-CoA and CO(2)(PMID:3422424). Defects in PDHB are the cause of pyruvate dehydrogenase E1-beta deficiency (PDHBD)(PMID:15138885).

Notable Publications

Author	Pubmed ID	Journal	Application
Zhen Cai	33022274	Mol Cell	WB
Israa Sharkia	27871875	J Allergy Clin Immunol	WB
Henrick Horita	29786648	Proteomes	WB

Storage

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

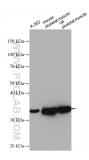
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



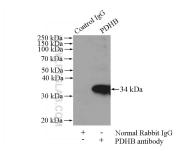
Various lysates were subjected to SDS PAGE followed by western blot with 14744-1-AP (PDHB antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



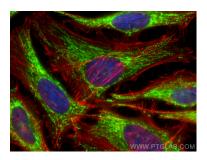
Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 14744-1-AP (PDHB antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 14744-1-AP (PDHB antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PDHB (IP:14744-1-AP, 4ug; Detection:14744-1-AP 1:300) with mouse heart tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PDHB antibody (14744-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).